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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/688,506	10/17/2003	Rangarajan Sundar	P957 US	2003
	7590 04/23/200 VASCULAR, INC.	7	EXAMINER	
IP LEGAL DEI	PARTMENT		PRONE, CHRISTOPHER D	
3576 UNOCAL PLACE SANTA ROSA, CA 95403			ART UNIT	PAPER NUMBER
			3738	
			<del></del> .	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	NOTIFICATION DATE	DELIVERY MODE	
3 MO	3 MONTHS 04/23/2007 ELECTRONIC		RONIC	

# Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Notice of this Office communication was sent electronically on the above-indicated "Notification Date" and has a shortened statutory period for reply of 3 MONTHS from 04/23/2007.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

rs.vasciplegal@medtronic.com

	Application No.	Applicant(s)				
Office Astion Commons	10/688,506	SUNDAR, RANGARAJAN				
Office Action Summary	Examiner	Art Unit				
	Christopher D. Prone	3738				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period was realiure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	lely filed the mailing date of this communication. (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 21 De	ecember 2006.					
	action is non-final.					
3) Since this application is in condition for allowar	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims						
4) Claim(s) <u>7-20 and 23-30</u> is/are pending in the a	application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>7-20 and 23-30</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
·						
Application Papers		• .				
9) The specification is objected to by the Examine						
10) The drawing(s) filed on is/are: a) acce		•				
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f)				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list		d. ·				
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Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08)  5) Notice of Informal Patent Application						
Paper No(s)/Mail Date 6)  Other:						

#### **DETAILED ACTION**

### Response to Arguments

Applicant's arguments filed 12/21/06 have been fully considered but they are not persuasive.

The applicant argue, that those with skill in the art would recognize that smoothing and polishing the cut ends of a coated stent would leave a stent with an uncoated end. The examiner disagrees because one could possibly smooth and polish a coating. The smoothing and polishing does not inherently mean that all coatings are removed.

The applicant argues, that Buirge fails to disclose that detachable portions and permanent portions. The examiner maintains his position on this as described below and in the previous office action.

The applicant argues, that Buirge fails to disclose that detachable portions are discarded and only the permanent portion is used. This is not convincing because the limitation fails to appeal in the claim language.

The applicant argues, that Buirge fails to disclose that the stent is retained by and end of the detachable portion. This is not convincing because Buirge discloses retaining the entire long tube including the ends on a mandrel, which is considered to be a retainer. The claim does not require that only the ends of the detachable portion be retained.

Application/Control Number: 10/688,506

Art Unit: 3738

### Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 21 and 22 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter, which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The specification lacks disclosure of the stent having "an uncoated end".

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 7-20 and 23-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Buirge (5,735,897) in view of admissions in the present specification. Buirge discloses a stent delivery system comprising: catheter; balloon operably attached to the catheter; and stent disposed on the balloon (col. 2, lines 37-38); coating disposed on the stent, the coating applied to a preliminary stent comprising a

Application/Control Number: 10/688,506

Art Unit: 3738

permanent portion and a detachable portion while retaining the preliminary stent by the detachable portion, the stent formed from the permanent portion by removing the detachable portion. In column 4, lines 32-52, Buirge disclose that "a long tube of stent-pump is prepared and then individual stents are cut off." If one considers the long tube, or preliminary stent, capable of forming, for example, three stents, then the first and third stents can be considered the first and second detachable portions respectively as claimed and the second, or middle stent, the permanent portion. The ends are finished with additional coating (col. 4, lines 50-52). The mandrel is the retainer, with the portions that hold the outer detachable stents first and second retaining portions.

However, Buirge does not disclose the detachable portion having a pooled coating. The background of the present specification states:

"When the coating is applied, the stent is generally supported on a fixture, such as a mandrel or similar device that allows the stent to be immersed in or sprayed with the coating material. The stent is retained on the fixture to prevent the stent from sliding. Cones aligned with the long axis and inserted in the ends of the stent, supporting pins, or clips can be used to retain the stent. Possible retainer materials that can be used to reduce liquid adhesion to the retainer include Delrin, Teflon, or stainless steel."

The stents of Buirge are made on a mandrel, and therefore it is well known as admitted by the applicant to use cones, supporting pins or clips which the applicant also admits leads to pooling on the detachable portions.

Regarding claims 10-11, Buirge discloses a stent delivery system, which comprises a stent made by detaching ends of the stent by cutting. However, Buirge does not disclose exactly how the detachable ends are cut off. The use of lasers or

Application/Control Number: 10/688,506

Art Unit: 3738

mechanical cutting devices is well known to ones of ordinary skill in the art for cutting and making stents.

Regarding claims 10-11, Buirge discloses a stent delivery system, which comprises a coated stent. However, Buirge does not disclose applying the coating by spraying. Spraying or dipping of stents to apply coatings is well known to ones of ordinary skill in the art as obvious equivalents, often cited together as alternative methods, e.g. in Hossainy et al. (6,153,252- col. 1, lines 25-27) and Harry (2002/0038146- paragraph [0038]).

Claims 8 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Buirge (5,735,897) as above in view Wang (6,379,379 B1). Buirge discloses a stent delivery system as above. However, Buirge does not disclose the ends as polished. Wang teaches a stent having polished ends (col. 9, lines 1-10). It would be obvious to one of ordinary skill in the art to combine the polished ends of the stent, as taught by Wang, to the stent as per Buirge, so that "the edges are rounded or smoothed out so that the possibility of damage to a passage is lessened" as cited by Wang.

#### Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

Application/Control Number: 10/688,506 Page 6

Art Unit: 3738

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher D. Prone whose telephone number is (571) 272-6085. The examiner can normally be reached on Monday Through Fri 8:30 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Corrine McDermott can be reached on (571) 272-4754. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 3738

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Christopher D Prone Examiner
Art Unit 3738

CORRINE McDERMOTT
SUPERVISORY PATENT EXAMINER
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